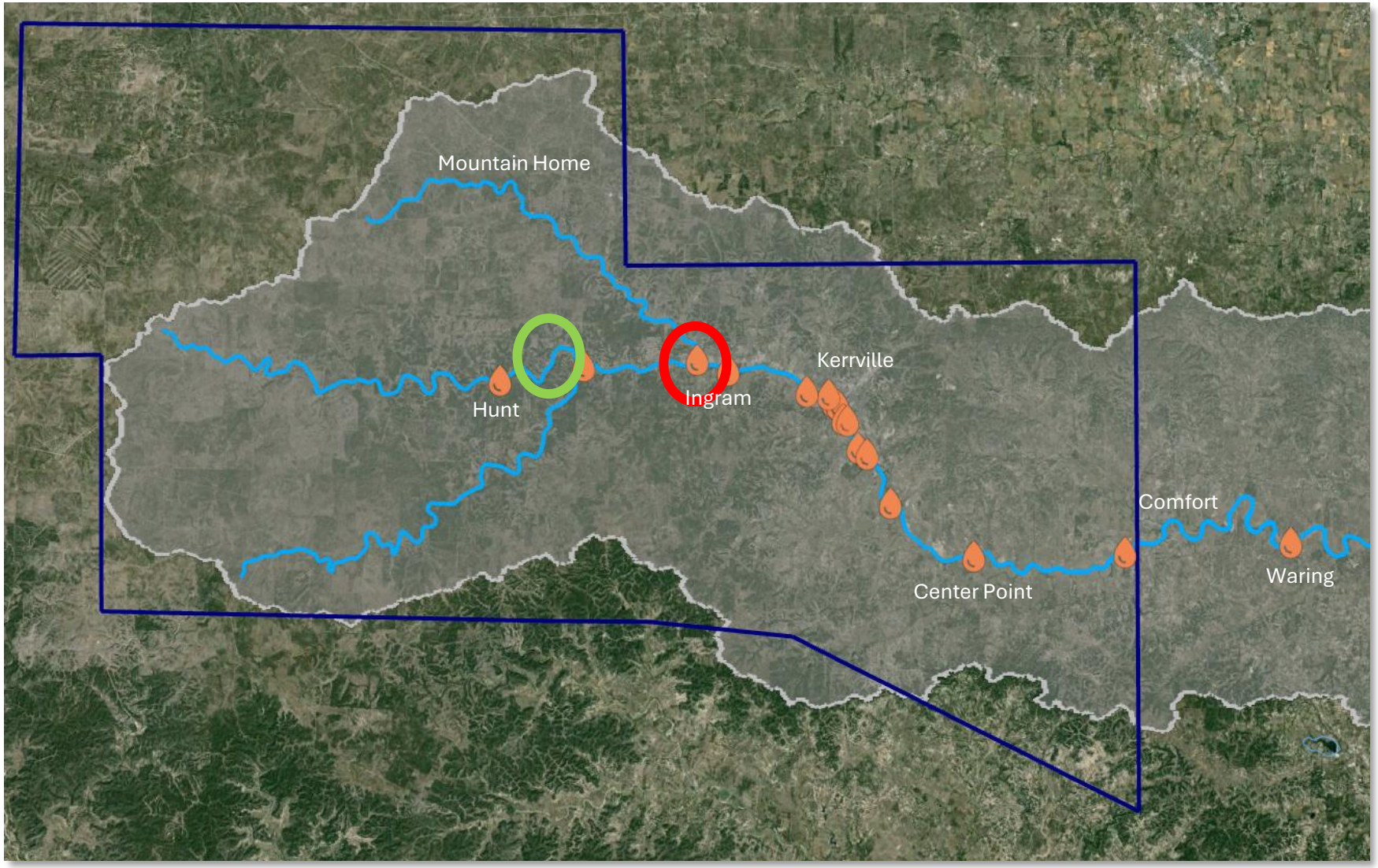
CRP Activities in Kerr County

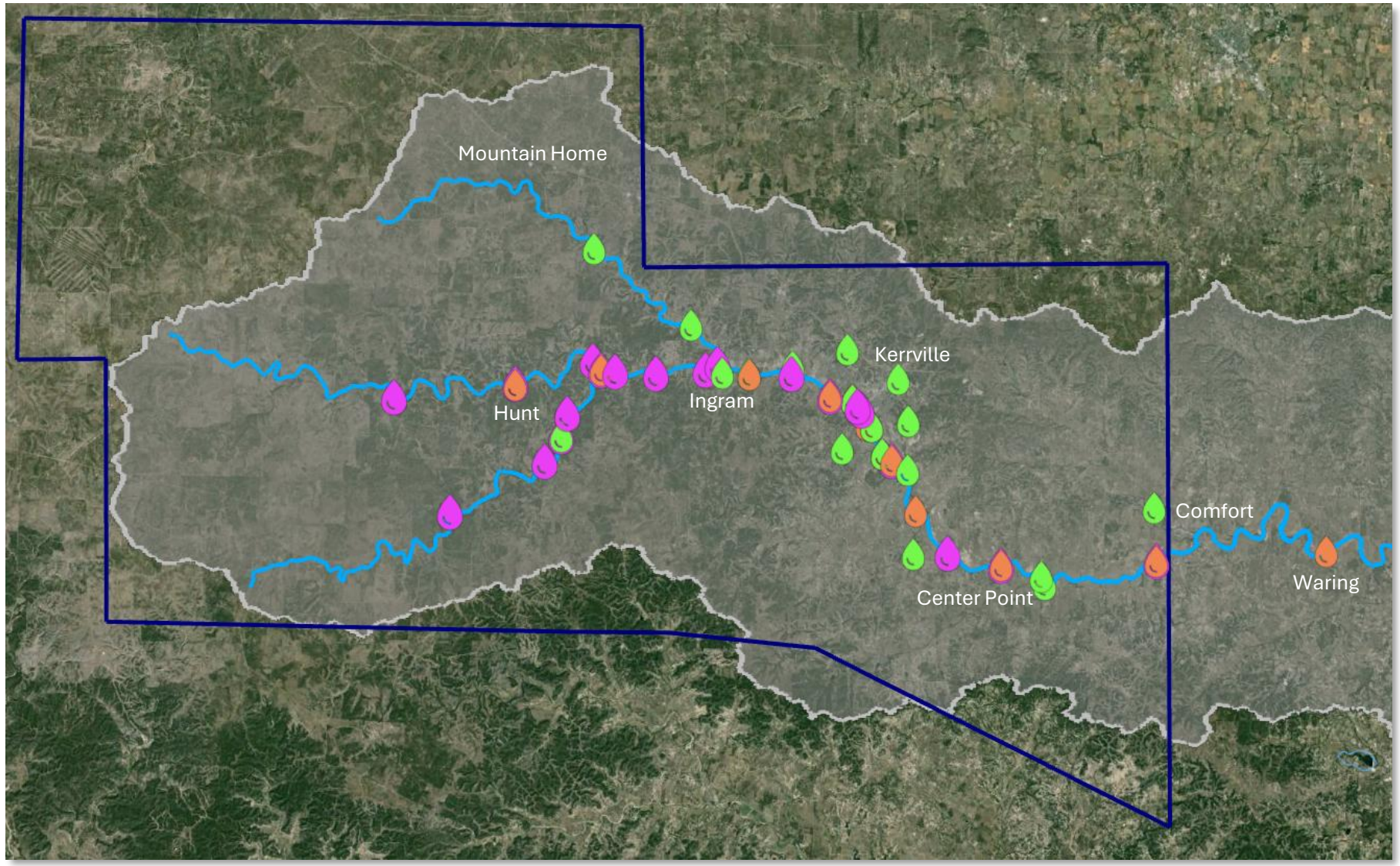
Shelby Taber
Upper Guadalupe River Authority
Natural Resources Manager

CRP Water Quality Monitoring

- Quarterly monitoring at 12 sites
- Monthly monitoring at 7 sites
- ALM at 1 site, twice a year



UGRA Water Quality Monitoring



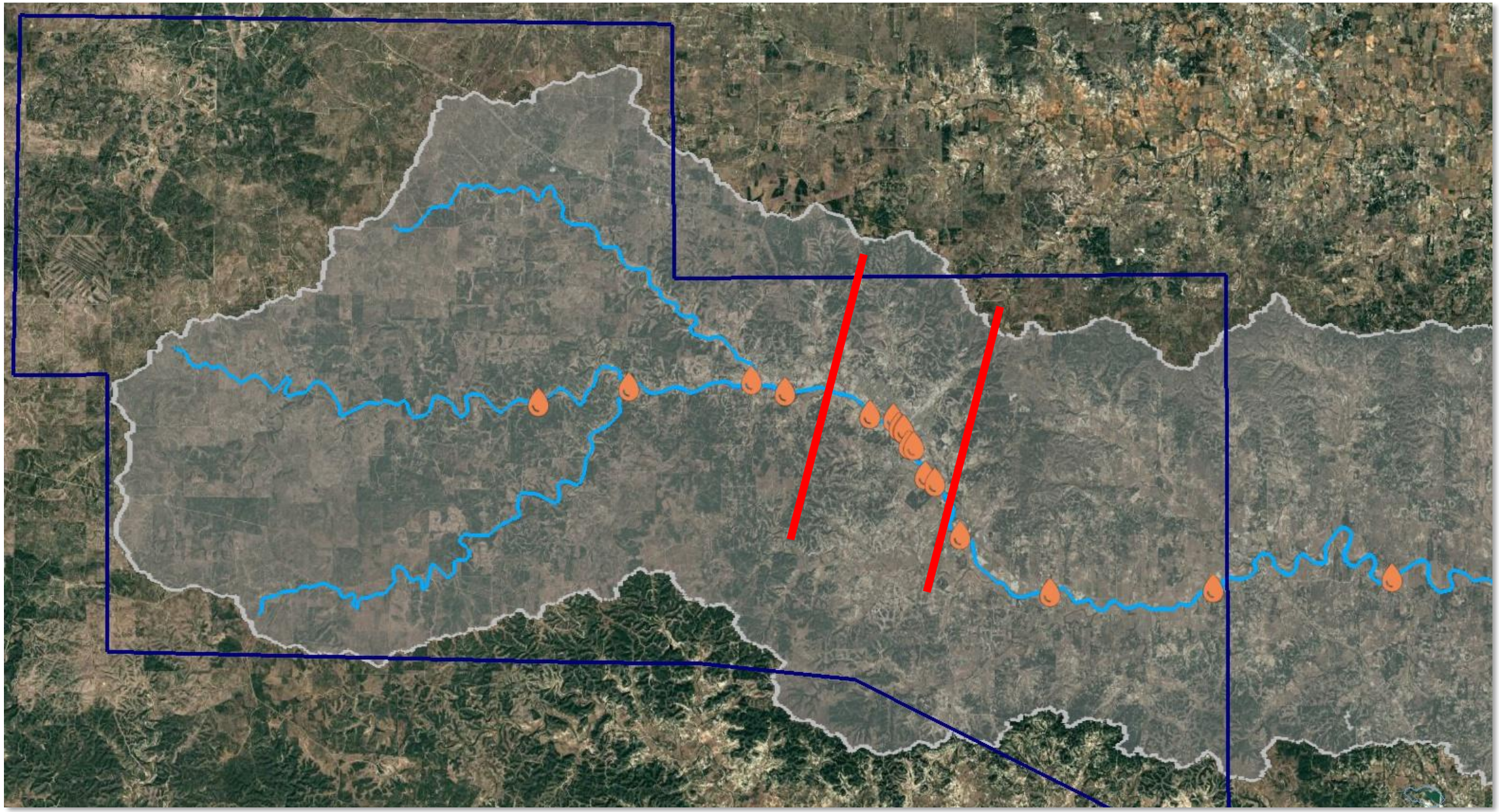
WQ Monitoring Summary 2024

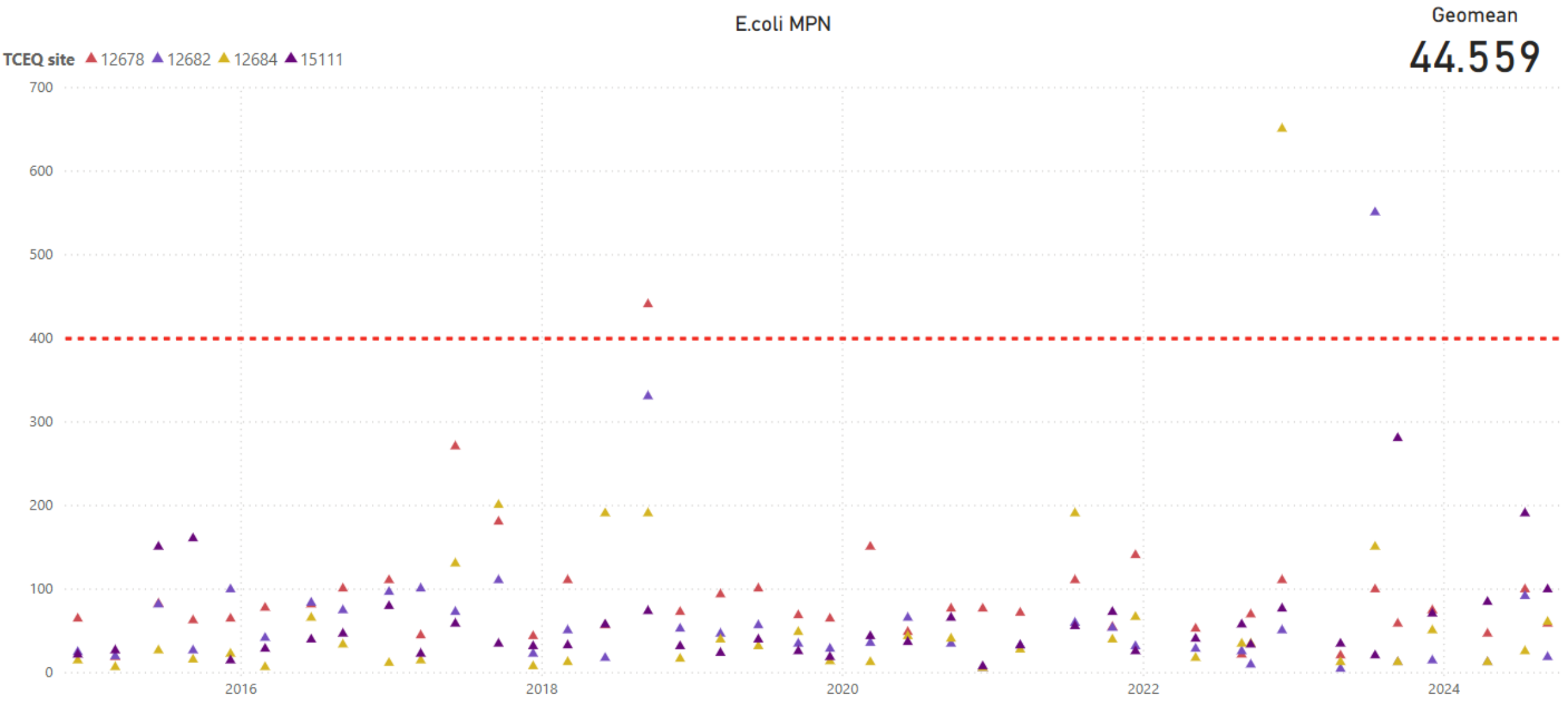
CRP

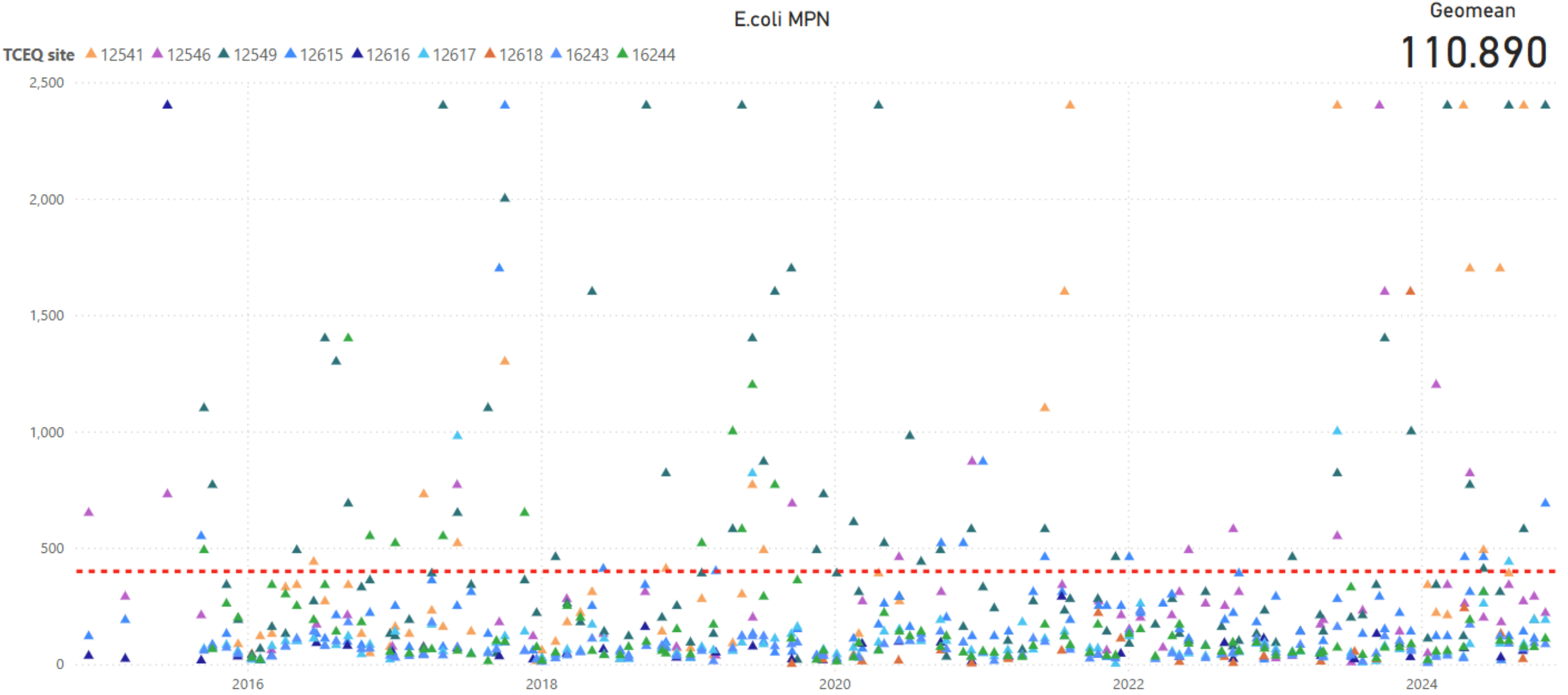
- 21 sampling events
- 17 sites
- 1,157 parameters tested

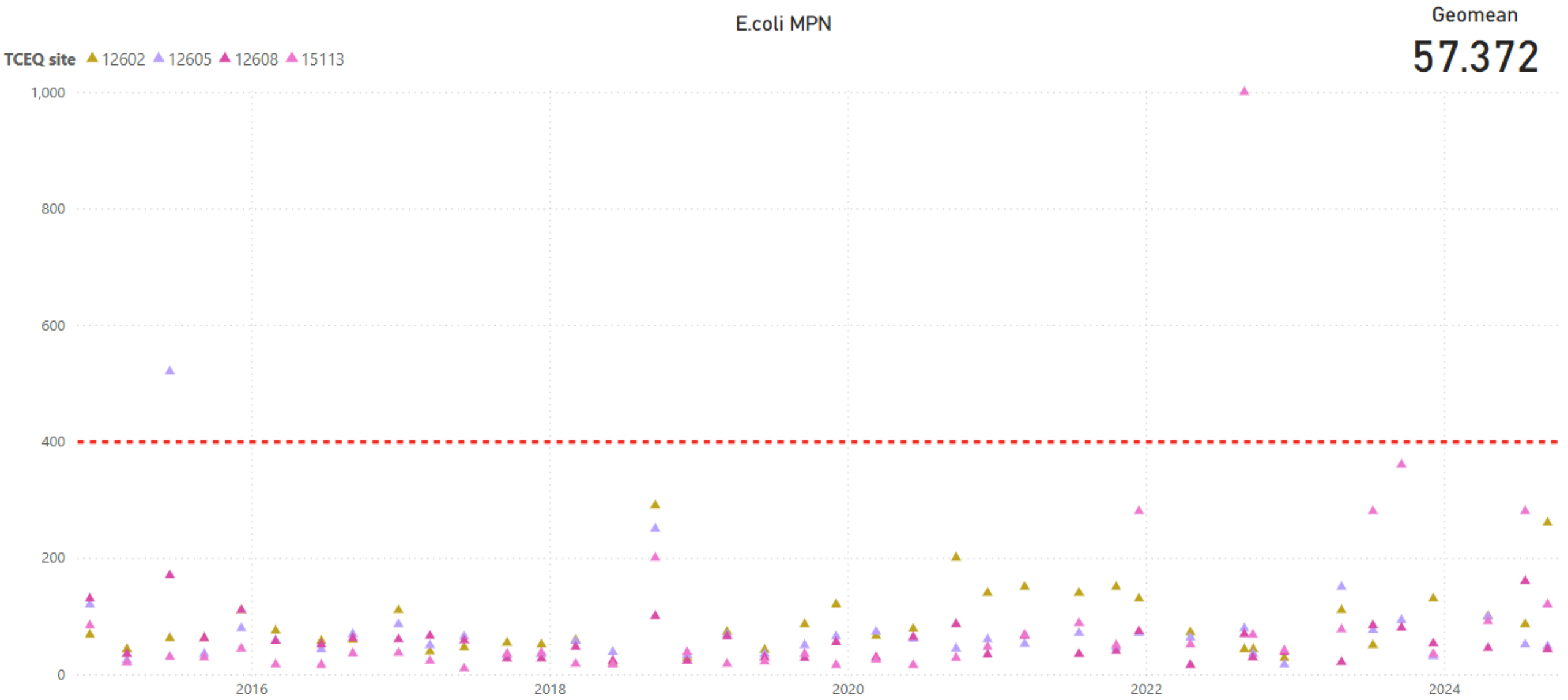
UGRA Water Quality Programs

- 58 sampling events
- 43 sites
- 2,443 parameters tested
- 12 water quality investigations

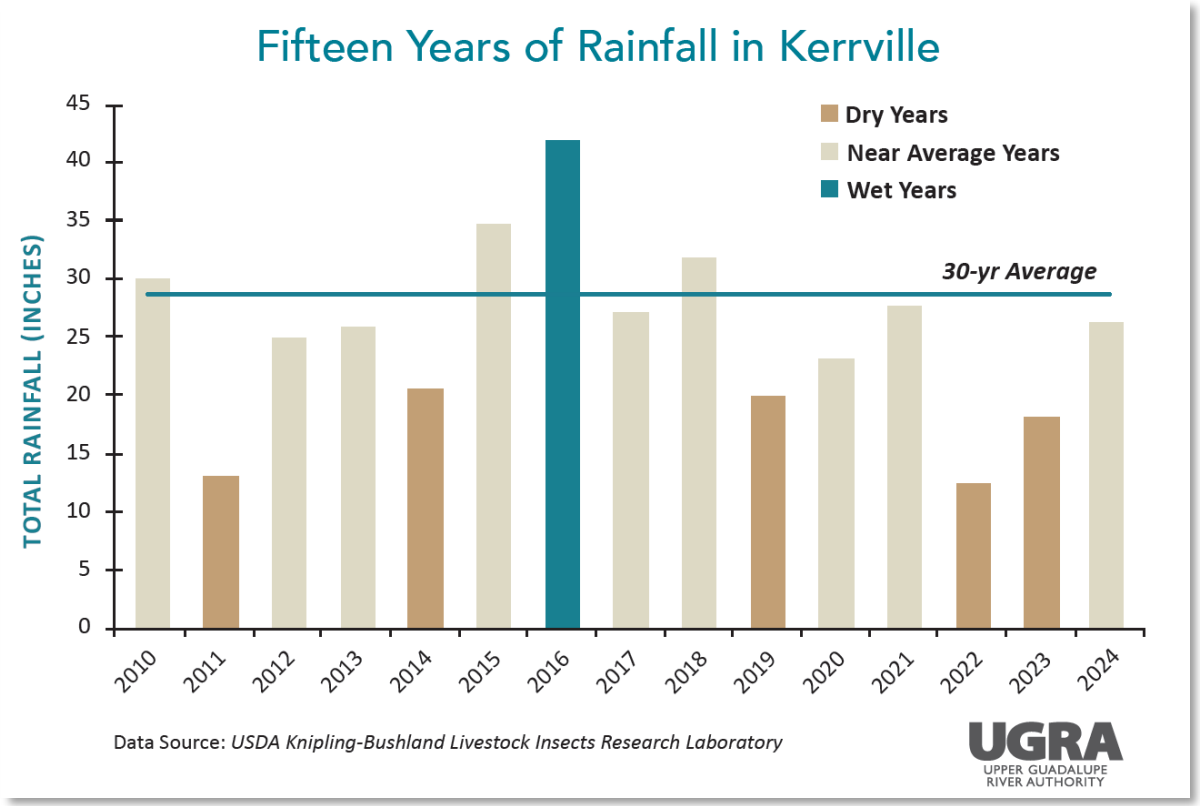


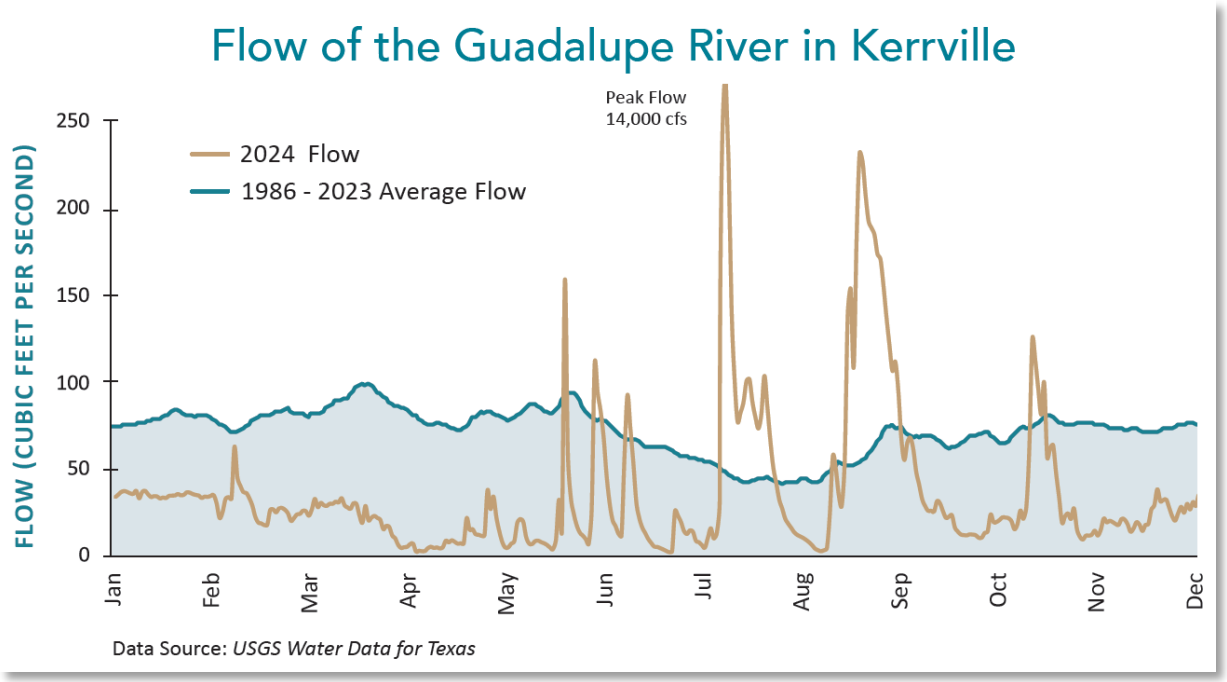

E.coli MPN
Geomean
44.559
TCEQ site
12678
12682
12684
15111
700
600
500
400
300
200
100
0
2016
2018
2020
2022
2024


E.coli MPN
Geomean
110.890
TCEQ site
12541
12546
12549
12615
12616
12617
12618
16243
16244
2,500
2,000
1,500
1,000
500
0
2016
2018
2020
2022
2024


E.coli MPN
Geomean
57.372
TCEQ site
12602
12605
12608
15113
1,000
800
600
400
200
0
2016
2018
2020
2022
2024

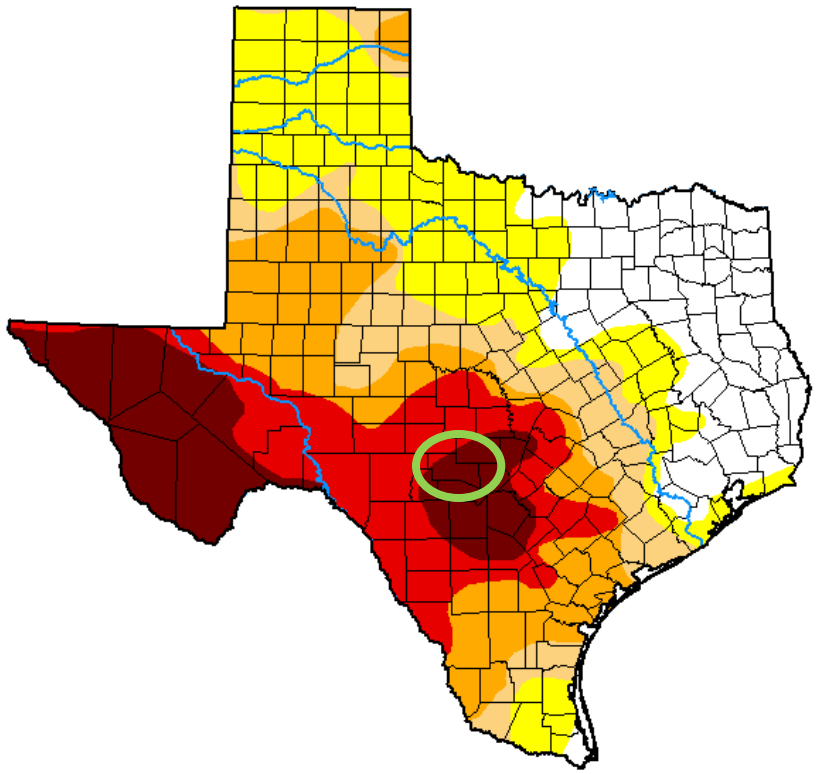
2024 Rainfall and Flow





U.S. Drought Monitor

Texas



April 8, 2025

(Released Thursday, Apr. 10, 2025)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	17.87	82.13	58.37	45.93	28.90	13.76
Last Week *04-01-2025*	14.77	85.23	67.65	45.93	28.87	13.76
3 Months Ago *01-07-2025*	36.81	63.19	43.63	21.45	13.26	6.30
Start of Calendar Year *01-07-2025*	36.81	63.19	43.63	21.45	13.26	6.30
Start of Water Year *10-01-2024*	26.09	73.91	34.39	16.62	8.91	3.36
One Year Ago *04-09-2024*	54.63	45.37	25.19	9.85	1.97	0.00

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

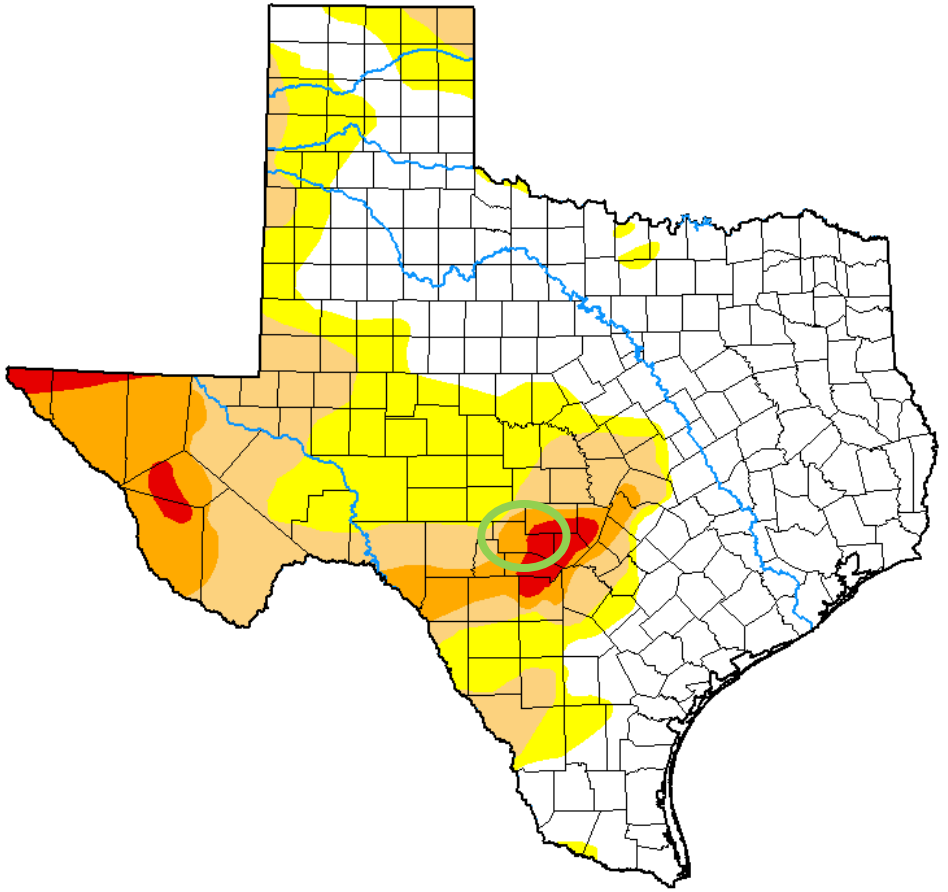
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

David Simeral
Western Regional Climate Center

droughtmonitor.unl.edu

April 9, 2024



Bacteria Reduction Plan Implementation Status

- Reduce Bacteria Contributions
  - Wildlife
  - Humans
  - Pet Waste
  - Urban Runoff
- Preserve Riparian Areas
- Promote Green Infrastructure

Watershed Stewardship – 2024

- Rainwater Harvesting
  - Rebate up to $500
  - Rainwater System Grant Program
- Water Professionals Scholarship
- Brush Management
- Feral Hog Management
- Water Resources Preservation Grant Program

Water Resources Preservation
GRANT PROGRAM

Cost-share rebate for design and construction of nature-based infrastructure practices to reduce, infiltrate, filter, and delay stormwater runoff.

- Available to all Kerr County projects, except single family residential projects
- Minimum cost-share rebate of $20,000
- Applications accepted year-round

Reducing stormwater runoff improves the health of the Guadalupe River.

UPPER GUADALUPE RIVER AUTHORITY

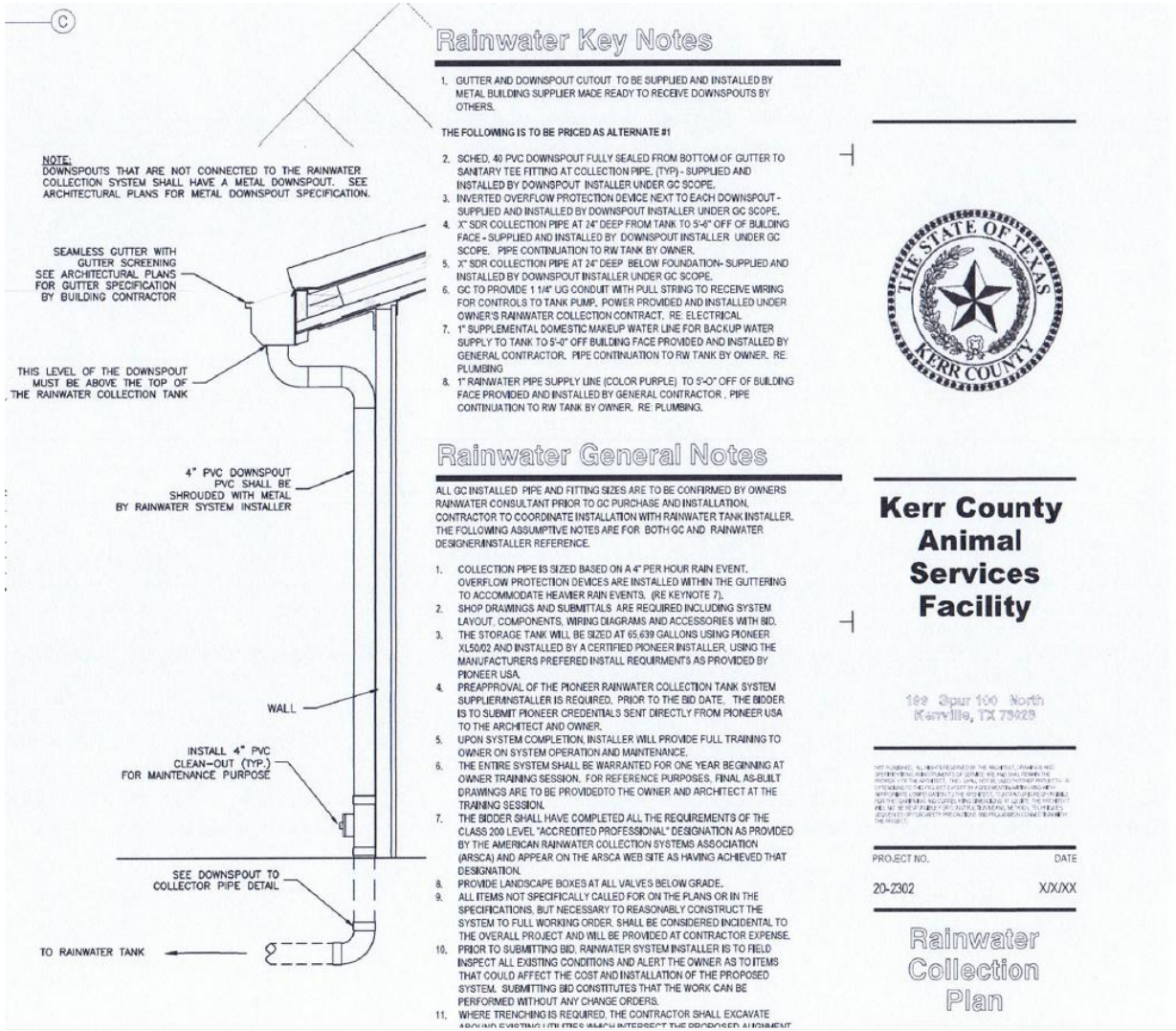
Design solutions to keep rainfall on your property, reduce flooding, and prevent pollution

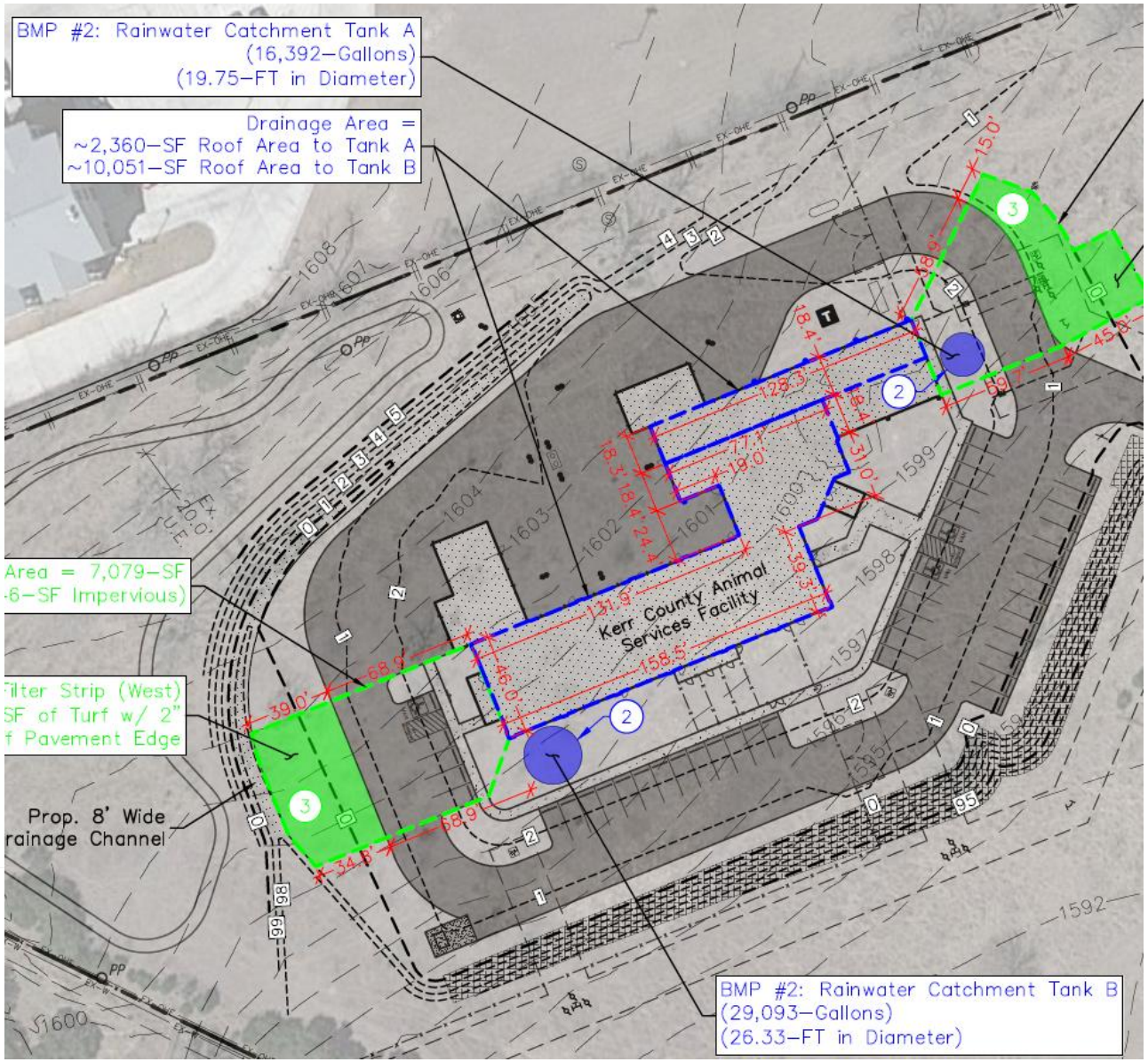
Eligible stormwater management practices include:

- Bioretention
- Permeable Pavement
- Rainwater Harvesting
- Vegetated Filter Strip
- Riparian Buffer

Bioretention area next to permeable parking spaces.

For additional information and program documents, visit **www.ugra.org** or scan ❯

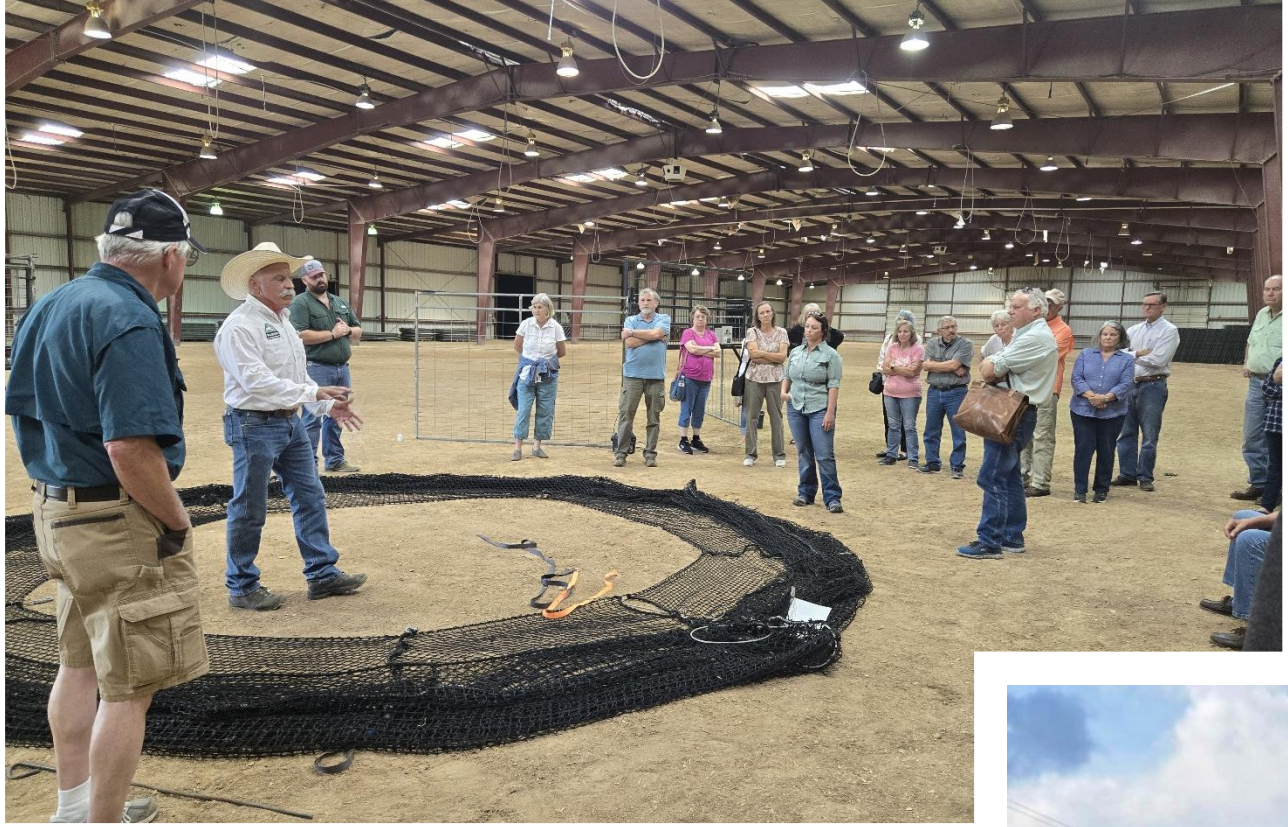

NOTE:
DOWNSPOUTS THAT ARE NOT CONNECTED TO THE RAINWATER COLLECTION SYSTEM SHALL HAVE A METAL DOWNSPOUT. SEE ARCHITECTURAL PLANS FOR METAL DOWNSPOUT SPECIFICATION.
SEAMLESS GUTTER WITH GUTTER SCREENING SEE ARCHITECTURAL PLANS FOR GUTTER SPECIFICATION BY BUILDING CONTRACTOR
THIS LEVEL OF THE DOWNSPOUT MUST BE ABOVE THE TOP OF THE RAINWATER COLLECTION TANK
4" PVC DOWNSPOUT PVC SHALL BE SHROUDED WITH METAL BY RAINWATER SYSTEM INSTALLER
WALL
INSTALL 4" PVC CLEAN-OUT (TYP.) FOR MAINTENANCE PURPOSE
SEE DOWNSPOUT TO COLLECTOR PIPE DETAIL
TO RAINWATER TANK
Rainwater Key Notes
1. GUTTER AND DOWNSPOUT CUTOUT TO BE SUPPLIED AND INSTALLED BY METAL BUILDING SUPPLIER MADE READY TO RECEIVE DOWNSPOUTS BY OTHERS.
THE FOLLOWING IS TO BE PRICED AS ALTERNATE #1
2. SCHED. 40 PVC DOWNSPOUT FULLY SEALED FROM BOTTOM OF GUTTER TO SANITARY TEE FITTING AT COLLECTION PIPE. (TYP) - SUPPLIED AND INSTALLED BY DOWNSPOUT INSTALLER UNDER GC SCOPE.
3. INVERTED OVERFLOW PROTECTION DEVICE NEXT TO EACH DOWNSPOUT - SUPPLIED AND INSTALLED BY DOWNSPOUT INSTALLER UNDER GC SCOPE.
4. X" SDR COLLECTION PIPE AT 24" DEEP FROM TANK TO 5'-6" OFF OF BUILDING FACE - SUPPLIED AND INSTALLED BY DOWNSPOUT INSTALLER UNDER GC SCOPE. PIPE CONTINUATION TO RW TANK BY OWNER.
5. X" SDR COLLECTION PIPE AT 24" DEEP BELOW FOUNDATION- SUPPLIED AND INSTALLED BY DOWNSPOUT INSTALLER UNDER GC SCOPE.
6. GC TO PROVIDE 1 1/4" UG CONDUIT WITH PULL STRING TO RECEIVE WIRING FOR CONTROLS TO TANK PUMP. POWER PROVIDED AND INSTALLED UNDER OWNER'S RAINWATER COLLECTION CONTRACT. RE: ELECTRICAL
7. 1" SUPPLEMENTAL DOMESTIC MAKEUP WATER LINE FOR BACKUP WATER SUPPLY TO TANK TO 5'-0" OFF BUILDING FACE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. PIPE CONTINUATION TO RW TANK BY OWNER. RE: PLUMBING
8. 1" RAINWATER PIPE SUPPLY LINE (COLOR PURPLE) TO 5'-0" OFF OF BUILDING FACE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR . PIPE CONTINUATION TO RW TANK BY OWNER. RE: PLUMBING.
Rainwater General Notes
ALL GC INSTALLED PIPE AND FITTING SIZES ARE TO BE CONFIRMED BY OWNERS RAINWATER CONSULTANT PRIOR TO GC PURCHASE AND INSTALLATION. CONTRACTOR TO COORDINATE INSTALLATION WITH RAINWATER TANK INSTALLER. THE FOLLOWING ASSUMPTIVE NOTES ARE FOR BOTH GC AND RAINWATER DESIGNER/INSTALLER REFERENCE.
1. COLLECTION PIPE IS SIZED BASED ON A 4" PER HOUR RAIN EVENT. OVERFLOW PROTECTION DEVICES ARE INSTALLED WITHIN THE GUTTERING TO ACCOMMODATE HEAVIER RAIN EVENTS. (RE KEYNOTE 7).
2. SHOP DRAWINGS AND SUBMITTALS ARE REQUIRED INCLUDING SYSTEM LAYOUT, COMPONENTS, WIRING DIAGRAMS AND ACCESSORIES WITH BID.
3. THE STORAGE TANK WILL BE SIZED AT 65,639 GALLONS USING PIONEER XL50/02 AND INSTALLED BY A CERTIFIED PIONEER INSTALLER, USING THE MANUFACTURERS PREFERED INSTALL REQUIRMENTS AS PROVIDED BY PIONEER USA.
4. PREAPPROVAL OF THE PIONEER RAINWATER COLLECTION TANK SYSTEM SUPPLIER/INSTALLER IS REQUIRED, PRIOR TO THE BID DATE. THE BIDDER IS TO SUBMIT PIONEER CREDENTIALS SENT DIRECTLY FROM PIONEER USA TO THE ARCHITECT AND OWNER.
5. UPON SYSTEM COMPLETION, INSTALLER WILL PROVIDE FULL TRAINING TO OWNER ON SYSTEM OPERATION AND MAINTENANCE.
6. THE ENTIRE SYSTEM SHALL BE WARRANTED FOR ONE YEAR BEGINNING AT OWNER TRAINING SESSION. FOR REFERENCE PURPOSES, FINAL AS-BUILT DRAWINGS ARE TO BE PROVIDEDTO THE OWNER AND ARCHITECT AT THE TRAINING SESSION.
7. THE BIDDER SHALL HAVE COMPLETED ALL THE REQUIREMENTS OF THE CLASS 209 LEVEL "ACCREDITED PROFESSIONAL" DESIGNATION AS PROVIDED BY THE AMERICAN RAINWATER COLLECTION SYSTEMS ASSOCIATION (ARSCA) AND APPEAR ON THE ARSCA WEB SITE AS HAVING ACHIEVED THAT DESIGNATION.
8. PROVIDE LANDSCAPE BOXES AT ALL VALVES BELOW GRADE.
9. ALL ITEMS NOT SPECIFICALLY CALLED FOR ON THE PLANS OR IN THE SPECIFICATIONS, BUT NECESSARY TO REASONABLY CONSTRUCT THE SYSTEM TO FULL WORKING ORDER, SHALL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT AND WILL BE PROVIDED AT CONTRACTOR EXPENSE.
10. PRIOR TO SUBMITTING BID, RAINWATER SYSTEM INSTALLER IS TO FIELD INSPECT ALL EXISTING CONDITIONS AND ALERT THE OWNER AS TO ITEMS THAT COULD AFFECT THE COST AND INSTALLATION OF THE PROPOSED SYSTEM. SUBMITTING BID CONSTITUTES THAT THE WORK CAN BE PERFORMED WITHOUT ANY CHANGE ORDERS.
11. WHERE TRENCHING IS REQUIRED, THE CONTRACTOR SHALL EXCAVATE
THE STATE OF TEXAS
KERR COUNTY
Kerr County Animal Services Facility
PROJECT NO.
DATE
20-2302
X/X/XX
Rainwater Collection Plan


BMP #2: Rainwater Catchment Tank A
(16,392–Gallons)
(19.75–FT in Diameter)
Drainage Area =
~2,360–SF Roof Area to Tank A
~10,051–SF Roof Area to Tank B
Area = 7,079–SF
-6–SF Impervious)
ilter Strip (West)
SF of Turf w/ 2"
f Pavement Edge
Prop. 8' Wide
rainage Channel
Kerr County Animal Services Facility
BMP #2: Rainwater Catchment Tank B
(29,093–Gallons)
(26.33–FT in Diameter)

Public Outreach Activities – 2024

- Community Presentations
- Information booths
- Newspaper, radio, social media, and website

- Volunteer Summer Study
- 21st River Clean Up
- EduScape tours
- AgriLife Seminar



Shelby Taber
(830) 896-5445
staber@ugra.org